



## Final Agenda

# NASA Sounder Science Team Meeting

May 4-7, 2009, Caltech

*a.m. light refreshments: 7:30 - 8:00*

*mid-afternoon light refreshments*



**Mon. May 4, 2009**

## NASA Sounder Science Team Coordination Meeting

### Session 1: AIRS V6 Development Status (Friedman)

Tom Pagano	JPL	Welcome and Introduction	8:00 AM
Steve Friedman	JPL	AIRS V6 Development Status	8:20 AM
Bill Irion	JPL	Version 6 Test Plans and Procedures	8:40 AM
Evan Manning	JPL	AIRS V6 Level 2 Start-Up States	9:00 AM
Joel Susskind	GSFC	Status and Plans for Version 6	9:20 AM
Larrabee Strow	UMBC	AIRS Retrievals of Dust-Contaminated Cloud-Cleared Radiances	9:50 AM

**BREAK**

**10:20 AM**

### Session 2: Sounder Calibration (Elliott)

Denis Elliott	JPL	Session Outline; Instrument Status	10:40 AM
Larrabee Strow	UMBC	Frequency Calibration of AIRS for V6	11:00 AM
Evan Manning	JPL	V6 AIRS Spectral Calibration	11:20 AM
Larrabee Strow	UMBC	Intercomparisons between AIRS and IASI Radiances	11:40 AM

**LUNCH**

**Noon - 1:30**

Hartmut Aumann	JPL	Lessons from 2 years of AIRS and IASI Data	1:30 PM
Margie Weiller	ATK	AIRS Level 1B Radiometric Calibration Coefficients	1:50 PM
Margie Weiller	ATK	AIRS Detector A/B Weights - Possible Changes for Improved Noise Performance	2:10 PM

### Session 3: Future Missions: NPP and MTOP A (Fishbein)

William Blackwell	MIT	CrIMSS Error Modeling with ATMS Proxy Data	2:30 PM
Denise Hagan	NGST	Status of CrIS Pre-Launch Calibration Activities	2:50 PM
Hank Revercomb	Univ of Wisconsin	Expected Calibration Performance of the NPP Cross-track Infrared Sounder (CrIS)	3:10 PM

**BREAK**

**3:30 PM**

Tom Pagano	JPL	Impact of Level 1 Radiometric Stability on Level 2 Products and Expectations for CrIS	3:50 PM
Steve Friedman	JPL	Sounder PEATE Development Status	4:10 PM
Evan Fishbein	JPL	Sounder PEATE Data Products Supporting CrIMSS Product Assessment	4:30 PM
Sung-Yung Lee	JPL	CrIMSS EDR at Sounder Peate	5:00 PM
Open Discussion			5:20 PM

**ADJOURN**

**5:30 PM**

\*Remote Presentation



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## NASA Sounder Science Team Meeting

Tues. May 5, 2009

### Session 4: Project Overviews (Pagano)

Mous Chahine	JPL	Welcome	8:00 AM
Ramesh Kakar	NASA HQ	NASA Headquarters Perspective	8:20 AM
Tom Pagano	JPL	AIRS Project Status	8:40 AM

### Session 5: Interdisciplinary Science (Pagano)

Joel Susskind	GSFC	Validation of Anomalies and Trends of AIRS Version 5 OLR	9:00 AM
Oreste Reale	GSFC	AIRS Impact on Atlantic tropical Cyclogenetic Processes in the GOES-5	9:30 AM
Joan Alexander and A. Grimsdell	CORA	Direct Validation of Modeled Gravity Waves Generated by Convection with AIRS	9:55 AM

**BREAK**

**10:15 AM**

Eric Wilcox	GSFC	Investigations of Smoke and Clouds using AIRS and A-Train	10:40 AM
Anup Krishna Prasad	Chapman University	Validation of AIRS Products over India and Comparisons with Other Sensors	11:05 AM

### Session 6: Composition (Irion)

Edward Olsen	JPL	Validation of Six Years of Mid-Tropospheric CO <sub>2</sub> Data from AIRS	11:30 AM
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**LUNCH**

**Noon - 1:30**

Yuk Yung	Caltech	Global Distribution of CO <sub>2</sub> in Mid-Troposphere from AIRS Measurements Reveal Cross Equator Exchange	1:30 PM
Xun Jiang	University of Houston	Seasonal and Interannual Variability of AIRS CO <sub>2</sub>	1:55 PM
Junjie Liu	University of California - Berkeley	AIRS CO <sub>2</sub> Data Assimilation with Ensemble Kalman Filter	2:20 PM

Larrabee Strow	UMBC	Global Lower Tropospheric CO <sub>2</sub> Retrievals from AIRS	2:40 PM
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**BREAK**

**3:00 PM**

Wallace McMillan	UMBC	AIRS CO Update V5, V5 and Global Trends	3:30 PM
Jenny Fisher	Harvard	Constraints on the sources and transport of Arctic CO from AIRS, ARCTAS, and the GEOS-Chem model	4:00 PM
Jasna Pittman	NCAR	Evaluation of AIRS, IASI and OMI Ozone Using In Situ Measurements from the START08 Campaign	4:30 PM
Open Discussion			5:00 PM

**ADJOURN**

**5:30 PM**

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## NASA Sounder Science Team Meeting



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### NASA Sounder Science Team Meeting

Wed. May 6, 2009

#### Session 7: V5 Validation Overview (Fetzer)

Eric Fetzer	JPL	V5 Validation Overview	8:00 AM
Bill Irion	JPL	Early Validation Results for AIRS Water Vapor and Temperature Using Averaging Kernels	8:20 AM
Liming Li	University of Houston	The Recycling Rate of Moisture in the Atmosphere Based on AIRS Observations	8:40 AM
Baijun Tian	UCLA	Intercomparison of UT/LS Temperature Profiles from AIRS, GPS, and ECMWF	9:00 AM
*Vivienne Payne	AER	Performance of the line by line radiative transfer model (BLRTM) for temperature and species retrievals: IASI case studies from JAIVEx	9:20 AM
<b>BREAK</b>			<b>9:40 AM</b>
Glynn Hulley	JPL	Validation and assessment of AIRS land surface emissivity products from V5 and V5.4	10:00 AM
Daniel Zhou	LaRC	Derive infrared surface emissivity from satellite hyperspectral sounders	10:20 AM

#### Session 8: Temperature and Water Vapor (Teixeira)

Eric Fetzer/HengchunYe	JPL	Changes in atmospheric water vapor associated with air temperatures over northern Eurasia	10:40 AM
Hui Su	JPL	Tropospheric Water Vapor Variability and Linkage to Large-Scale Circulation	11:00 AM
Calvin Liang	JPL	A combined AIRS and MLS Perspective on Upper Tropospheric Water Vapor	11:20 AM
TBD/Open Discussion			11:40 AM
<b>LUNCH</b>			<b>NOON - 1:30</b>
Brian Kahn	JPL	Cloudy and Clear Sky Relative Humidity in the Upper Troposphere Observed by AIRS, CloudSat, and CALIPSO: Quantifying Inter-Hemispheric Humidity Differences	1:30 PM
Sean Casey	Texas A&M	Tropospheric Relative Humidity and Tropical Cumulus Congestus Clouds as Viewed in Collocated AIRS/CloudSat Data	1:50 PM

#### Session 9: Dust and Clouds (Kahn)

Van Dang	JPL	Comparison of AIRS and MODIS Level 2 Cloud Top Properties	2:10 PM
<b>BREAK</b>			<b>2:30 PM</b>
Li King-Fai	Caltech	A discriminant analysis of hyperspectral data in clear and cloudy atmospheres	2:50 PM
Hartmut Aumann	JPL	Clouds in the ECMWF Analysis	3:10 PM
Ovidu Pancrati	Environment Canada	Cloud parameters validation using simulated AIRS radiances	3:30 PM

#### Session 10: Data System Status (Friedman)

Thomas Hearty	GSFC	AIRS Data Services at the GES DISC	3:50 PM
Sharon Ray/KevinHussey	JPL	AIRS EPO & Eyes on the Earth 3D Demo	4:10 PM
Open Discussion			4:40 PM
<b>ADJOURN</b>			<b>5:30 PM</b>

\*Remote Presentation